Term used **specware** Found **22** of **155,867**

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1 Government, industry, and academia: Teaming to design high confidence information security applications

W. B. Martin, P. D. White, W. M. Vanfleet

August 2000 **Proceedings of the third workshop on Formal methods in software practice**

Full text available: pdf(262.03 KB) Additional Information: full citation, abstract, references, index terms

A trusted computing base requires true separation of processes. Modern approaches relegate separation to a component of the operating system called the kernel. Although the kernel represents only a small portion of the code of the entire operating system, it is among the most intensively used portions. With separation as the focus, this paper will describe a kernel that provides strict separation between processes, allowing for the remainder of the operating system, residin ...

Keywords: Separation kernel, data isolation, formal specification, information flow, refinement

2 Specware

Jim McDonald

January 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 1

Full text available: pdf(273.70 KB) Additional Information: full citation, index terms

3 A specification of Java loading and bytecode verification

Allen Goldberg

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**

Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

Keywords: Java, bytecode verification, flow analysis, formal specification

4 Producing more reliable software: mature software engineering process vs. state-of-the-art technology?

Terms used **specification** and **code** and **generation**

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1 A specification and code generation tool for message translation and validation

Charles Plinta, Richard D'Ippolito, Roger Van Scoy

November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda international conference on Ada**, Volume XVIII Issue 6

Full text available: pdf(1.43 MB) Additional Information: full citation, references, index terms

Keywords: Ada95, CORBA servers, code generation, integration, interoperability, message, model, model-based software engineering, specification tool, translation, validation

2 Automated interface code generation from Ada specifications

Paul R. Pukite

May 1993 **ACM SIGAda Ada Letters**, Volume XIII Issue 3

Full text available: pdf(684.21 KB) Additional Information: full citation, abstract, index terms

Mapping data structures between incompatible representations remains an error-prone and tedious part of program development. This letter outlines a method for automating interface code generation based on Ada package specifications and the use of Ada keywords as interface mapping directives. This concept supports information hiding by placing the details of the generated interface code in the package body.

3 Generating efficient protocol code from an abstract specification

Claude Castelluccia, Walid Dabbous, Sean O'Malley

August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4

Full text available: pdf(163.38 KB) Additional Information: full citation, references, citings, index terms

Keywords: code optimization, formal languages, protocol compilers, transport protocols

4 A system for program component specification and code generation

Robert P. Brazile

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Terms used **automatic code generation** Found **65,190** of **155,867**

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1 Computational sciences (CS): Using semi-lagrangian formulations with automatic code generation for environmental modeling

Paul van der Mark, Lex Wolters, Gerard Cats

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(145.10 KB) Additional Information: full citation, abstract, references, citings

An import issue for numerical weather prediction modes (NWP) is the time it takes to produce a valid forecast. One factor, which greatly influences this simulation time is the size of the time step. However, time step size is often limited by the numerical stability of the used advection schemes. Available schemes include semiimplicit Eulerian and semi-Lagrangian schemes. In principal, semi-Lagrangian formulations result in irregular communications on parallel architectures. In this paper we des ...

Keywords: compilers, numerical algorithms, problem solving environments

2 Automatic generation of optimization code based on symbolic non-linear domain formulation

Rainer Bacher

October 1996 **Proceedings of the 1996 international symposium on Symbolic and algebraic computation**

Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

Keywords: automatic optimization code generation, domain engineering, electric power system optimal power flow, network optimization, non-linear optimization, problem solving environment, structured optimization problem

3 Some thoughts on automatic code generation

Robert L. Glass

April 1996 **ACM SIGMIS Database**, Volume 27 Issue 2

Full text available: pdf(233.48 KB) Additional Information: full citation, index terms

4

Terms used **specification automatic automatically code generation**

Found **11,938** of **155,867**

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Relevance scale

1 Automatic generation of program specifications

Jeremy W. Nimmer, Michael D. Ernst

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 27 Issue 4

Full text available: pdf(154.41 KB) Additional Information: full citation, abstract, references, citings

Producing specifications by dynamic (runtime) analysis of program executions is potentially unsound, because the analyzed executions may not fully characterize all possible executions of the program. In practice, how accurate are the results of a dynamic analysis? This paper describes the results of an investigation into this question, determining how much specifications generalized from program runs must be changed in order to be verified by a static checker. Surprisingly, small test suites cap ...

2 An approach to support automatic generation of user interfaces

Prasun Dewan, Marvin Solomon

October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12 Issue 4

Full text available: pdf(3.55 MB) Additional Information: full citation, abstract, references, citings, index terms

In traditional interactive programming environments, each application individually manages its interaction with the human user. The result is duplication of effort in implementing user interface code and nonuniform—hence confusing—input conventions. This paper presents an approach to support automatic generation of user interfaces in environments based on algebraic languages. The approach supports the editing model of interaction, which allows a user to view all appli ...

3 Automatic generation of optimization code based on symbolic non-linear domain formulation

Rainer Bacher

October 1996 **Proceedings of the 1996 international symposium on Symbolic and algebraic computation**

Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

Keywords: automatic optimization code generation, domain engineering, electric power